WHAT IS CLAIMED IS:

1. A method for processing alkene-containing exhaust gas, comprising:

ozonation process, wherein the alkene-containing exhaust gas reacts with ozone and the double bond is completely oxidized and broken down into small molecules; and

biological process, wherein the small molecules are further reacted and decomposed.

2. The method as claimed in claim 1, wherein the ozone process is carried out in an apparatus selected from the group consisting of a gas pipe, a packed column and any device that promotes the blending of gases and the contact among gases.

3. The method as claimed in claim 2, wherein the equipment that promotes the contact among gases is selected from the group consisting of venturi pipes and static blender.

4. The method as claimed in claim 3, the material of the venturi pipes and static blender is selected from the group consisting of stainless steel and other material that is resistant to ozone.

5. The method as claimed in claim 2, the processing equipment filled with a filler is selected form the group consisting of packed columns and sieve plate columns.

6. The method as claimed in claim 5, wherein the material of the filler or the sieve plate of the sieve plate column is selected from the group consisting of stainless steel and other material that is resistant to ozone.

7. The method as claimed in claim 4 or 6, wherein the filler, sieve plate, venturi pipe and the static mixer further comprise a catalytic substance that accelerates the decomposition of ozone.

8. The method as claimed in claim 1, further comprising a step of decomposing residual ozone before the exhaust gas entering the biological process.

9. The method as claimed in claim 8, wherein the decomposition of the residual ozone is carried out in a filter material compost compartment.

10. The method as claimed in claim 9, wherein the material filling the filter material compost compartment is selected from the group consisting of organic substances and other substances that decompose ozone.

11. The method as claimed in claim 10, wherein the substance that decomposes ozone is activated carbon, MnO_2, FeO(OH), or Ag.

12. The method as claimed in claim 1, wherein the biological process is carried out in a device selected form the group consisting of bio-filter, a bio-trickling filter and a bio-scrubber.

13. The method as claimed in claim 12, wherein the means by which the exhaust is introduced into the bio-filter bed is selected form the group consisting of upflow and downflow.

14. The method as claimed in claim 12, wherein the means by which the exhaust gas is introduced into the bio-trickling filter or the bio-scrubber is selected from the group consisting of upflow, downflow and crossflow.

15. The method as claimed in claim 1, wherein the ozonic process equipment and the biological process equipment are combined as a single apparatus.

16. The method as claimed in claim 1, wherein the ozonic process equipment and the biological process equipment are two individual apparatus.

17. The method as claimed in claim 1, wherein the alkene-containing exhaust gas comprises styrene, butadiene, norbornene, and acrylates.

18. The method as claimed in claim 17, wherein the acrylates are acrylic acetate and butyl acrylate.

19. The method as claimed in claim 1, wherein the noxious component of the alkene-containing exhaust gas is hydrogen sulfide, methanethiol, ethanethiol and dimethyl sulfide.

20. The method as claimed in claim 1, wherein the amount of ozone added is 0.1~10 times that of the pollutant.

21. The method as claimed in claim 1, wherein the amount of ozone added is 0.5~5 times that of the pollutant.

22. The method as claimed in claim 1, further comprising a monitoring step for exhaust gas, in which the pollutant concentrations before and after the process are observed to adjust the ozone supply accordingly.

23. The method as claimed in claim 22, wherein the inspection item in the monitoring step is selected from the group consisting of the total concentration of hydrocarbons in the exhaust gas and the concentration of the compound reactive with ozone.

24. The method as claimed in claim 22, wherein the regulation of ozone supply is adjusted according to a factor selected form the group consisting of the ozone concentration and the flowrate of the ozone supply.